

PENDING CLAIMS

1. (Original) A capacitor comprising:
a case having a feedthrough hole;
a capacitor stack located within the case;
a coupling member having a base surface directly attached to the capacitor stack and a portion at least partially extending through the feedthrough hole, the coupling member having a mounting section;
a feedthrough conductor having a portion coupled to the mounting section; and
a sealing member adjacent the feedthrough hole for sealing the feedthrough hole.
2. (Original) The capacitor of claim 1, wherein the feedthrough hole is non-hermetically sealed.
3. (Original) The capacitor of claim 1, wherein the base surface is butt-welded to a flat connection surface of the capacitor stack.
4. (Original) The capacitor of claim 3, wherein the base surface comprises a planar surface.
5. (Original) The capacitor of claim 1, wherein the mounting section comprises a hole and the feedthrough conductor is crimped within the hole.
6. (Original) The capacitor of claim 1, wherein the mounting section comprises a hole and the feedthrough conductor is arc welded to the coupling member.
7. (Original) The capacitor of claim 1, wherein the coupling member comprises an aluminum material and the feedthrough conductor comprises a non-aluminum material.
8. (Original) The capacitor of claim 7, wherein the coupling member further comprises a holding tube having a passage that mates with the feedthrough conductor.

9. (Original) The capacitor of claim 8, wherein the feedthrough conductor has a diameter approximately the same as a diameter of the holding tube passage, the feedthrough conductor attached within the holding tube passage.

10. (Original) The capacitor of claim 1, wherein the sealing member comprises an epoxy deposited around the feedthrough hole.

11. (Withdrawn) The capacitor of claim 1, wherein the sealing member comprises an elastic plug.

12. (Previously Presented) A feedthrough assembly for a capacitor, the feedthrough assembly comprising:

a coupling member for attaching to a capacitor stack of the capacitor, the coupling member having a mounting hole and a surface adapted to directly attach to the capacitor stack; and

a feedthrough conductor having a width dimensioned to fit within the mounting hole of the coupling member.

13. (Original) The feedthrough assembly of claim 12, wherein the coupling member includes a planar base surface for attaching to the capacitor stack of the flat capacitor.

14. (Original) The feedthrough assembly of claim 12, wherein the feedthrough conductor is welded within the mounting hole.

15. (Original) The feedthrough assembly of claim 12, wherein the feedthrough conductor is crimped within the mounting hole.

16. (Previously Presented) A capacitor comprising:
a case including a portion having a feedthrough hole;

a capacitor element having one or more conductive surfaces;
a feedthrough conductor; and
a coupling member having a first conductive surface contacting one or more of the conductive surfaces of the capacitor element and second and third opposing conductive surfaces contacting the feedthrough conductor and extending through the feedthrough hole.

17. (Original) The capacitor of claim 16, wherein the first surface is substantially perpendicular to the second and third opposing surfaces.

18. (Original) The capacitor of claim 16, further comprising a weld joining at least a portion of the first surface of the coupling member to the one or more conductive surfaces.

β1 19. (Original) The capacitor of claim 16, wherein the second and third opposing surfaces are curved.

20. (Original) The capacitor of claim 16, wherein the coupling member has a portion outside the case and a portion inside the case.

21. (Original) The capacitor of claim 16, wherein the coupling member is electrically conductive.

22-41. (Canceled)

22 42. (Previously Presented) A feedthrough assembly for a capacitor, the feedthrough assembly comprising:

a coupling member for attaching to a capacitor stack of the capacitor, the coupling member having a mounting hole; and

a feedthrough conductor having a width dimensioned to fit within the mounting hole of the coupling member, wherein the feedthrough conductor is welded within the mounting hole.

²³₄₃. (Previously Presented) The feedthrough assembly of claim ²²~~42~~, wherein the coupling member includes a planar base surface for attaching to the capacitor stack of the flat capacitor.

²⁴₄₄. (Previously Presented) The feedthrough assembly of claim ²²~~42~~, wherein the coupling member is electrically conductive.

²⁵₄₅. (Previously Presented) A feedthrough assembly for a capacitor, the feedthrough assembly comprising:

a coupling member for attaching to a capacitor stack of the capacitor, the coupling member having a mounting hole; and

a feedthrough conductor having a width dimensioned to fit within the mounting hole of the coupling member, wherein the feedthrough conductor is crimped within the mounting hole.

²⁶₄₆. (Previously Presented) The feedthrough assembly of claim ²⁵~~45~~, wherein the coupling member includes a planar base surface for attaching to the capacitor stack of the flat capacitor.

²⁷₄₇. (Previously Presented) The feedthrough assembly of claim ²⁵~~45~~, wherein the coupling member is electrically conductive.